

# DDTS Detailed Document Report

Date: JAN 17, 1996

Page: 1

Document ID: HAN-95462

No. Pages: 4

Document Title: SCRAP AND SS MATERIAL WASTE FOR BURIAL AT RICHLAND

Document Date: 08/31/1966

Original Classification: (SRD) SECRET RESTRICTED DATA

Last Review Date:

Current Classification: (SRD) SECRET RESTRICTED DATA

Status: Classified

Alternate Doc. IDs: COJ-121-66

Keywords: TSP DOCUMENT

Categories:

Abstract:

Notes:

## AUTHORS

### Name

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### Affiliation

AEC: Atomic Energy Commission

## CUSTODIANS

### Custodian

(DOE-RL) DEPARTMENT OF ENERGY - RICHLAND

### Document Format(s)

HARD COPY

### Document Location

030751

## REVIEW HISTORY

### Review Date

### Details

1/18/96

Reviewer: *Richard Werner*

Action: *DECLASS*

Before Review: *SECRET*

After Review: *SECRET*

W H C CO

1/22/96

Guide: *DOE-RL-5, Rev 1 (EO 11652)*

*RFP 3900*

*TABLE 14.1*

R2006

\*\*\* END OF REPORT \*\*\*

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*No*

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*1/22/96*

## PRIMARY &amp; SECONDARY CATEGORIES

## KEYWORDS

1.	Specific Materials	100 Area
_____	Deuterium	1100 Area
_____	Fission Products	200 West Area
_____	General	200 East Area
_____	High Explosives	300 Area
_____	Lithium	3000 Area
_____	Plutonium	600 Area
_____	Transplutonic Elements	700 Area
_____	Tritium	ALE
_____	Uranium	Aviation and Space Technology
2.	Reactors	B Plant/WESF
_____	Aircraft, Rocket & Space Reactors	B Reactor
_____	Army Nuclear Power Package Program	Casting
_____	Civil Power Reactors	Columbia River
_____	Experimental Breeder Reactors	D Reactor
_____	General	DR Reactor
_____	Miscellaneous & Other Reactor Topics	Earth and Space Science
_____	Naval Nuclear Propulsion	F Reactor
_____	Production Reactors	FFTF
_____	Research & Test Reactors & Small Experimental Reactors	Fuel Fabrication
3.	Nuclear Weapons & Related Technology	Fuel Recycle
_____	Fission Weapons	Fuel Handling
_____	General	Fuels and Materials Engineering
_____	Military Utilization	Groundwater
_____	Nuclear Directed Energy Systems	H Reactor
_____	Nuclear Tests	Isotopes
_____	Nuclear Warfare & Civil Defense	KE Reactor
_____	Nuclear Weapons Effects	KW Reactor
_____	Other Weapon Topics	Metallurgy
_____	Plowshare Program	N Reactor
_____	Theory, History & Development	Nuclear Materials Control and Accountability
_____	ThermoNuclear Weapons	Physical Protection and Security
4.	Health, Safety & Environment	Plutonium Finishing Plant
_____	Environmental Effects	Pollution and Control
_____	General	PUREX
_____	Public Health & Safety	_____ and Radiation Protection
_____	Waste Management	Radiobiology
_____	Worker Health & Safety	React _____ Technology
5.	National Security, Policy, Warfare	REDOX
_____	Arms Control	S Plant
_____	General	Separation Processes and Procedures
_____	Other	Stockpile
_____	Radiological, Chemical, Biological & Conventional ...	T Plant
_____	Safeguards & Security	U Plant
6.	General, Miscellaneous, Administrative, Historical and Multi-Disciplined Progress Reports	UO3 Plant
_____	General	Waste Treatment and Disposal
7.	Controlled _____	Weapon Design
_____	General	
_____	Inertial Confinement Fusion	
_____	Magnetic Fusion	
8.	Isotope Separation	
_____	Electromagnetic Processes	
_____	Gas Centrifuge	
_____	Gaseous Diffusion	
_____	General	
_____	Laser Isotope Separation	
_____	Other Isotope Separation Information	
_____	Thermal Diffusion	
9.	Radioisotope Power Supplies, Including Isotopic Systems ...	
_____	General	
10.	Science & Technology	
_____	Biology & Medicine	
_____	Chemistry	
_____	General	
_____	Geology, Hydrology, Seismology, Site Studies	
_____	Instruments & Equipment	
_____	Mathematics	
_____	Metallurgy	
_____	Particle Accelerators & High Voltage Machines	
_____	Physics	

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DOCUMENT NO.

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			Revised		9-9-66

WESTINGHOUSE HARTFORD COMPANY	
DECLASSIFICATION REVIEW	
1ST REVIEW - DATE	1/18/96
AUTHORITY	<input checked="" type="checkbox"/> ADC <input type="checkbox"/> ADD
NAME:	David Hammer - SA Spec
2ND REVIEW - DATE	1/22/96
AUTHORITY	ADD
NAME:	Robinson WHC CO

covered are changed VANS?

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1/12/96

A.E.

**DECLASSIFIED**

UNITED STATES GOVERNMENT

# Memorandum

TO : George F. Penn, Fuels & Metallurgy Branch  
Production Division, RL

DATE: AUG 31 1966

FROM : *H. V. Werner*  
H. V. Werner  
SS Materials Representative, SAN

SUBJECT: SCRAP SS MATERIALS AND WASTE FOR BURIAL AT RICHLAND

TSD:VNR

The enclosure describes classified scrap and waste being shipped to Richland for land burial. The shipment will depart from LRL-Livermore on September 7, 1966, by courier-escorted trucks and is scheduled to arrive in Richland for unloading on September 9, 1966.

Enclosure:

LRL listing, COJ-121-66,  
Cys. 2 and 3, A-39288.

When separated from enclosure, handle  
this document as UNCLASSIFIED

University of California  
Ernest O. Lawrence Radiation Laboratory  
P. O. BOX 808  
Livermore, California

Page 1

DOCUMENT NUMBER COJ-121-66

COPY 2 OF 4 SERIES       

THIS DOCUMENT CONTAINS 2 PAGES

A39288

HAN-95462

No. of Container	Cont. No.	Cont. Type	Gross Wt. Lbs.	Type of Waste	D-38 SS Net Wt.	T <sub>2</sub>	Li <sup>6</sup>	U-235 SS Net	Isotope	Surface Rad. Readings mr/hr.
17	968 thru 984	30 gal. drums	4,720	D-38 Machine						
1	MM-66-70	"	419	Turnings	596					5
1	MM-65-134	"	286	D-38 Machine Turnings						
1	MM-66-69	"	310	Berkeley-Scrap AEC						6
1	MM-66-83	Wooden 51x53x78	1,808	Approved Write-Off						
1	MM-66-84	Wooden 52x54x42	1,104	Dirty D-38 Scrap						5
1	MM-66-85	Wooden 31x44x33	690	& Parts	98					6
1	MM-66-86	Wooden 17x27x19	495	"	96					4
1	MM-66-87	Wooden 39x70x42	5,810	Classified Assy.						6
1	MM-66-88	Wooden 23x23x24	464	"			Li6&7 Li6			6
1	MM-66-89	Wooden 23x23x18	266	"	973		28 26			6
1	MM-66-96	55 gal. drum	565	"						2
1	MM-66-100	Metal Glove Box In		Bamboo Scrap						3
		Wooden Box	1,640	"						3
				Tritium Contaminated			Li6&7 Li6			<1
				Parts & Lithium			665 645			
				Tritium Contaminated						
				Scrap, Lithium, U-235		T <sub>2</sub>	Li6&7 Li6			
				& Equipment		.50	2,142 2,033	28	28	<1

Total D-38 1,763 kgs.  
Total T<sub>2</sub> .50  
Total Li6&7 2,835 gms.  
Total Li6 2,704 gms.  
Total U-235  
SS Net 28 gms.  
Isotope 28 gms.

University of California  
Ernest O. Lawrence Radiation Laboratory  
P. O. BOX 808  
Livermore, California

DOCUMENT NUMBER COI-121-66  
Page 2

<u>No. of Container</u>	<u>Cont. No.</u>	<u>Cont. Type</u>	<u>Gross Wt. Lbs.</u>	<u>Type of Waste</u>	<u>Surface Rad. Readings mr/hr.</u>
1	MM-66-81	Wooden 28x57x31	1,370	Contaminated Classified Steel Scrap	<1
1	MM-66-82	" 18x45x19	490	"	<1
1	MM-66-80	Metal Can			
		6' Dia.x 91"	5,256	Classified Scrap & Parts	<1
1	MM-66-93	Concrete Block	23,000	Classified Debris Samples	
1	MM-66-90	30 gal. drum	135	Dirty Beryllium Parts & Scrap	<1
1	MM-66-91	"	344	"	<1
1	MM-66-92	"	262	"	<1
1	MM-66-94	Wooden 50x50x52	950	Pu Contaminated Parts & Assorted Irradiated Scrap	40
1	MM-66-95	55 gal. drum	500	Tritium Contaminated Classified Scrap	<1
1	MM-66-97	"	210	Tritium Waste From UC Medical School	<1
1	MM-66-98	"	226	Contaminated Classified Waste	2
1	MM-66-99	Wooden 27x31x37	700	Contaminated Debris Metal	3
1	MM-66-101	30 gal. drum	165	Irradiated Classified Parts	40
1	MM-66-102	"	100	Irradiated Classified Waste	<1
Sub Total			52,285		
10 40" x 48" Pallets			700		
TOTAL GROSS WT.			53,585		

## PACKING LIST

Page 1 of 2

*Scrap*

Surface Rad.  
Reading Mr/Hr.

No. of Cont.	Cont. No.	Type of Container	Gross Wt.	Type of Waste	Surface Rad. Reading Mr/Hr.
17	968 thru 984	30 gal. drums	4,720	D-38 Machine Turnings	5
1	MM-66-70	"	419	D-38 Machine Turnings-Berkeley Scrap AEC Approved Write-Off	6
1	MM-65-134	"	286	Dirty D-38 Scrap & Parts	5
1	MM-66-69	"	310	Dirty D-38 Scrap & Parts	6
1	MM-66-83	Wooden 51 X 53 X 78	1,808	Classified Assy.	4
1	MM-66-84	Wooden 52 X 54 X 42	1,104	" "	6
1	MM-66-85	Wooden 31 X 44 X 33	690	" "	6
1	MM-66-86	Wooden 17 X 27 X 19	495	" "	6
1	MM-66-87	Wooden 39 X 70 X 42	5,810	" "	2
1	MM-66-88	Wooden 23 X 23 X 24	464	Radioactive Scrap	3
1	MM-66-89	Wooden 23 X 23 X 18	266	" "	3
1	MM-66-96	55 gal. drum	565	Contaminated Parts	<1
1	MM-66-100	Metal Glove Box In Wooden Box	1,640	Contaminated Scrap	<1
1	MM-66-81	Wooden 28 X 57 X 31	1,370	Contaminated Classified Steel Scrap	<1
1	MM-66-82	Wooden 18 X 45 X 19	490	Contaminated Classified Steel Scrap	<1
1	MM-66-80	Metal Can 6' Dia. X 91"	5,256	Classified Scrap & Parts	<1
1	MM-66-93	Concrete Block	23,000	Classified Debris Samples	
1	MM-66-90	30 gal. drum	135	Dirty Beryllium Parts & Scrap	<1
1	MM-66-91	"	344	Dirty Beryllium Parts & Scrap	<1
1	MM-66-92	"	262	Dirty Beryllium Parts & Scrap	<1
1	MM-66-94	Wooden 50 X 50 X 52	950	Pu Contaminated Parts & Assorted Irradiated Scrap	40

## PACKING LIST

Page 2 of 2

<u>No. of Cont.</u>	<u>Cont. No.</u>	<u>Type of Container</u>	<u>Gross Wt.</u>	<u>Type of Waste</u>	<u>Surface Rad. Reading Mr/Hr.</u>
1	MM-66-95	55 gal. drum	500	Contaminated Classified Scrap	<1
1	MM-66-97	55 gal. drum	210	Tritium Waste From UC Medical School	<1
1	MM-66-98	55 gal. drum	226	Contaminated Classified Waste	2
1	MM-66-99	Wooden 27 X 31 X 37	700	Contaminated Debris Metal	3
1	MM-66-101	30 gal. drum	165	Irradiated Classified Parts	40
1	MM-66-102	30 gal. drum	100	Irradiated Classified Waste	<1
SUB-TOTAL			52,285		
10 40" X 48" Pallets			700		
TOTAL GROSS WT.			53,585		



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University of California Livermore, California					SHIP TO	M. L. SHORT 271-U Bldg 200-W ISO CHEM		<u>IMPORTANT</u> SHOW PURCHASE ORDER NUMBER ON ALL PACKAGES, INVOICES AND CORRESPONDENCE. COMPLETE PACKING LIST MUST ACCOMPANY EACH SHIPMENT.
F.O.B.				DATE DELIVERY REQUIRED AT F.O.B. POINT			BUYER	
TERMS OF PAYMENT				CODE		SHIP VIA		
ITEM	QUANTITY	U/M	DESCRIPTION			UNIT PRICE	TOTAL PRICE	RECEIVED
21	987654321	54321	CONFIRMING ORDER <input type="checkbox"/> IF CHECKED <input type="checkbox"/>			09876	4321	987654
	35	PCS	Radioactive, waste					35
RECEIVED FROM SAME				SHIPPED VIA C. F			SHIPPING POINT SAME	
FRT. BILL NO. 401-368834		FRT. BILL WEIGHT 42000		DATE RECEIVED 9-9-66		DATE SHIPPED		PCS FRT. BILL 35
FRT. CHARGES NOT SHOWN		COLLECT	PPD	CAR INITIAL AND NO.		RECEIPT FOR MATERIAL & DATE		PIECES 35
ITEM	SERVICE ORG.	FM	ACCOUNT	AUTHOR G. Penn		BLDG. 703	AREA 700	PACKING SLIP NO. YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
CHARGE NO.				DELIVER TO M. L. Short		271-U 200W		WRITE-UP D/

PURCHASING